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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/939,752	08/28/2001	Masaki Komaki	024016-00014	3840

7590 06/21/2002

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[REDACTED] EXAMINER

NGUYEN, JOSEPH H

[REDACTED] ART UNIT [REDACTED] PAPER NUMBER

2815

DATE MAILED: 06/21/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/939,752	KOMAKI, MASAKI
	Examiner Joseph Nguyen	Art Unit 2815

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-18 is/are pending in the application.
 4a) Of the above claim(s) 12-18 is/are withdrawn from consideration.
 5) Claim(s) ____ is/are allowed.
 6) Claim(s) 1-11 is/are rejected.
 7) Claim(s) ____ is/are objected to.
 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 28 August 2001 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 11) The proposed drawing correction filed on ____ is: a) approved b) disapproved by the Examiner.
 If approved, corrected drawings are required in reply to this Office action.
 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1.) Certified copies of the priority documents have been received.
 2.) Certified copies of the priority documents have been received in Application No. ____.
 3.) Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
 * See the attached detailed Office action for a list of the certified copies not received.
 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 a) The translation of the foreign language provisional application has been received.
 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of claims 1-11 in Paper No. 4 is acknowledged. Therefore, claims 1-9 are prosecuted whereas claims 12-18 are withdrawn from consideration.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 3-5 and 7 recite the limitation "the connector terminals". There is insufficient antecedent basis for this limitation in the claim since this term "connector terminals" was not previously referred to in the dependent claim 1.

Claim 8 recites the limitation "the fundamental cells". There is insufficient antecedent basis for this limitation in the claim since this term "the fundamental cells" were not previously referred to in claim 8.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over figures 13 of acknowledged prior art (APA) in view of Fudanuki et al.

Regarding claim 1, (APA) discloses a fundamental cell used as a basic unit in the layout of a semiconductor integrated circuit device comprising connection terminals 101 to be connected to upper wiring layers M2. (APA) does not disclose no fixed wiring for commonly wiring between fundamental cells each other. However, Fudanuki et al discloses on figure 10A no fixed wiring for commonly wiring between fundamental cells each other. In view of such teaching, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify (APA) by having no fixed wiring for commonly wiring between fundamental cells each other for the purpose of improving the density integration of the semiconductor device as taught by Fudanuki et al (col. 12, lines 30-40).

Regarding claims 2-7, (APA) and Fudanuki et al together disclose the structure set forth in claims 2-7.

Regarding claim 8, (APA) discloses substantially all the structure set forth in the claimed invention except no fixed wiring for commonly wiring between fundamental cells each other. However, Fudanuki et al discloses on figure 10A no fixed wiring for commonly wiring between fundamental cells each other. In view of such teaching, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify (APA) by having no fixed wiring for commonly wiring between fundamental cells each other for the purpose of improving the density integration of the semiconductor device as taught by Fudanuki et al (col. 12, lines 30-40).

Regarding claims 9-11, (APA) and Fudanuki et al together disclose the structure set forth in claims 9-11.

Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yuyama et al in view of Fudanuki et al.

Regarding claim 1, Yuyama et al discloses on figure 2 a fundamental cell used as a basic unit in the layout of a semiconductor integrated circuit device comprising connection terminals 2 to be connected to upper wiring layers. Yuyama et al does not disclose no fixed wiring for commonly wiring between fundamental cells each other. However, Fudanuki et al discloses on figure 10A no fixed wiring for commonly wiring between fundamental cells each other. In view of such teaching, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Yuyama et al by having no fixed wiring for commonly wiring between fundamental cells each other for the purpose of improving the density integration of the semiconductor device as taught by Fudanuki et al (col. 12, lines 30-40).

Regarding claims 2-7, Yuyama et al and Fudanuki et al together disclose the structure set forth in claims 2-7.

Regarding claim 8, Yuyama et al discloses on figure 2 substantially all the structure set forth in the claimed invention except no fixed wiring for commonly wiring between fundamental cells each other. However, Fudanuki et al discloses on figure 10A no fixed wiring for commonly wiring between fundamental cells each other. In view of such teaching, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Yuyama et al by having no fixed wiring for commonly wiring between fundamental cells each other for the purpose of improving the

density integration of the semiconductor device as taught by Fudanuki et al (col. 12, lines 30-40).

Regarding claims 9-11, Yuyama et al and Fudanuki et al together disclose the structure set forth in claims 9-11.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent 4947229 to Tanaka et al discloses a semiconductor integrated circuit

US Patent 6057225 to Yokota discloses a semiconductor integrated circuit.

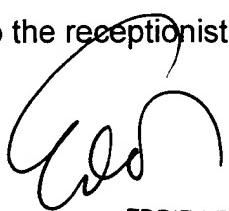
JP Patent 6-112447 to Masao et al discloses the integration of fundamental cells.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Nguyen whose telephone number is (703) 308-1269. The examiner can normally be reached on Monday-Friday, 7:30 am- 4:30 pm

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (703) 308-1690. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 308-7382 for regular communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JN
June 18, 2002


EDDIE LEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800